

Figure 1

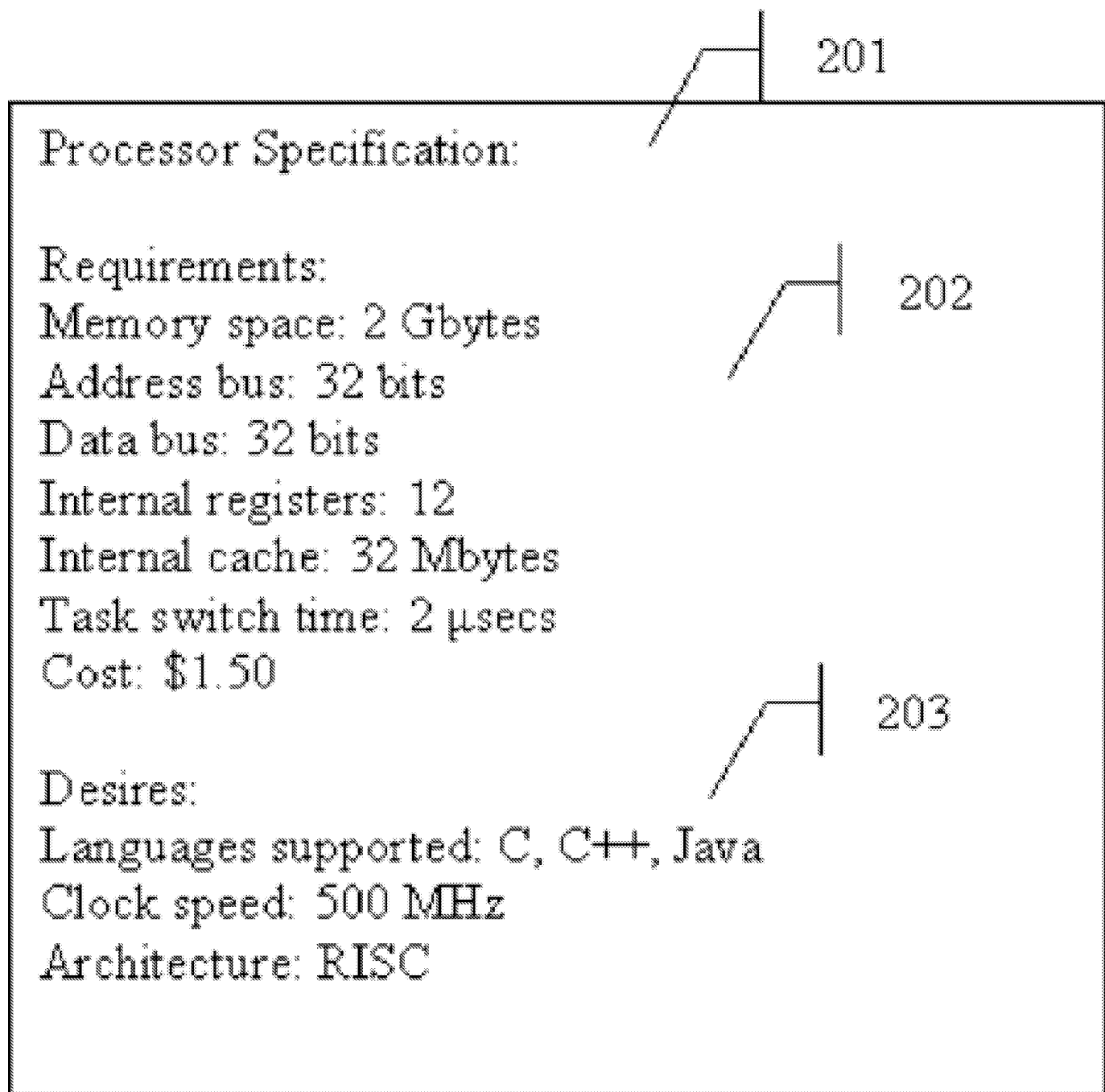


Figure 2

| Processor   | Memory space | Address bus | Data bus | Internal registers | Internal cache | Task switch time | Cost    | Languages         | Clock speed | Architecture |
|-------------|--------------|-------------|----------|--------------------|----------------|------------------|---------|-------------------|-------------|--------------|
| MIPS32 M4K  | 4 Gbytes     | 32 bits     | 32 bits  | 24                 | 16 Mbytes      | 2 $\mu$ secs     | \$54.00 | C, C++, Java, asm | 500 MHz     | RISC         |
| ARM7TDMI    | 4 Gbytes     | 32 bits     | 32 bits  | 16                 | 16 Mbytes      | 3 $\mu$ secs     | \$22.00 | C, C++, Java, asm | 300 MHz     | RISC         |
| PowerPC 405 | 4 Gbytes     | 32 bits     | 32 bits  | 16                 | 32 Mbytes      | 4 $\mu$ secs     | \$65.00 | C, C++, Java, asm | 300 MHz     | RISC         |
| 68HC11      | 64 Kbytes    | 16 bits     | 8 bits   | 4                  | 0 Mbytes       | 1 $\mu$ secs     | \$1.00  | asm               | 10 MHz      | CISC         |
| 8051        | 64 Kbytes    | 16 bits     | 32 bits  | 4                  | 0 Mbytes       | 1 $\mu$ secs     | \$0.50  | C, asm            | 10 MHz      | CISC         |

Figure 3

```

/** This is the normal header comments for the routine  */
/**                                                     */
/**                                                     */
/**                                                     */
/** The following information is required for the present */
invention  */
/** Driver information:
    Name: Ethernet driver
    Version: 1.01
    Hardware: ETH101
    Other:
*/

EtherDriver(in1, in2, in3, out);
(
    // body of code
)

```

Figure 4

600

```
/** This is the normal header comments for the routine ****/
```

```
/** ****/
```

```
/** ****/
```

```
/** ****/
```

```
/** The following information is required for the present  
invention ****/
```

```
/** Driver information:
```

```
    Name: USB driver
```

```
    Version: 2.50
```

```
    Hardware: Custom
```

```
    HDL file: USB.v
```

```
    Other:
```

```
****/
```

```
USBDriver(in1, in2, in3, out);
```

```
{
```

```
    // body of code
```

```
}
```

601

602

603

Figure 5

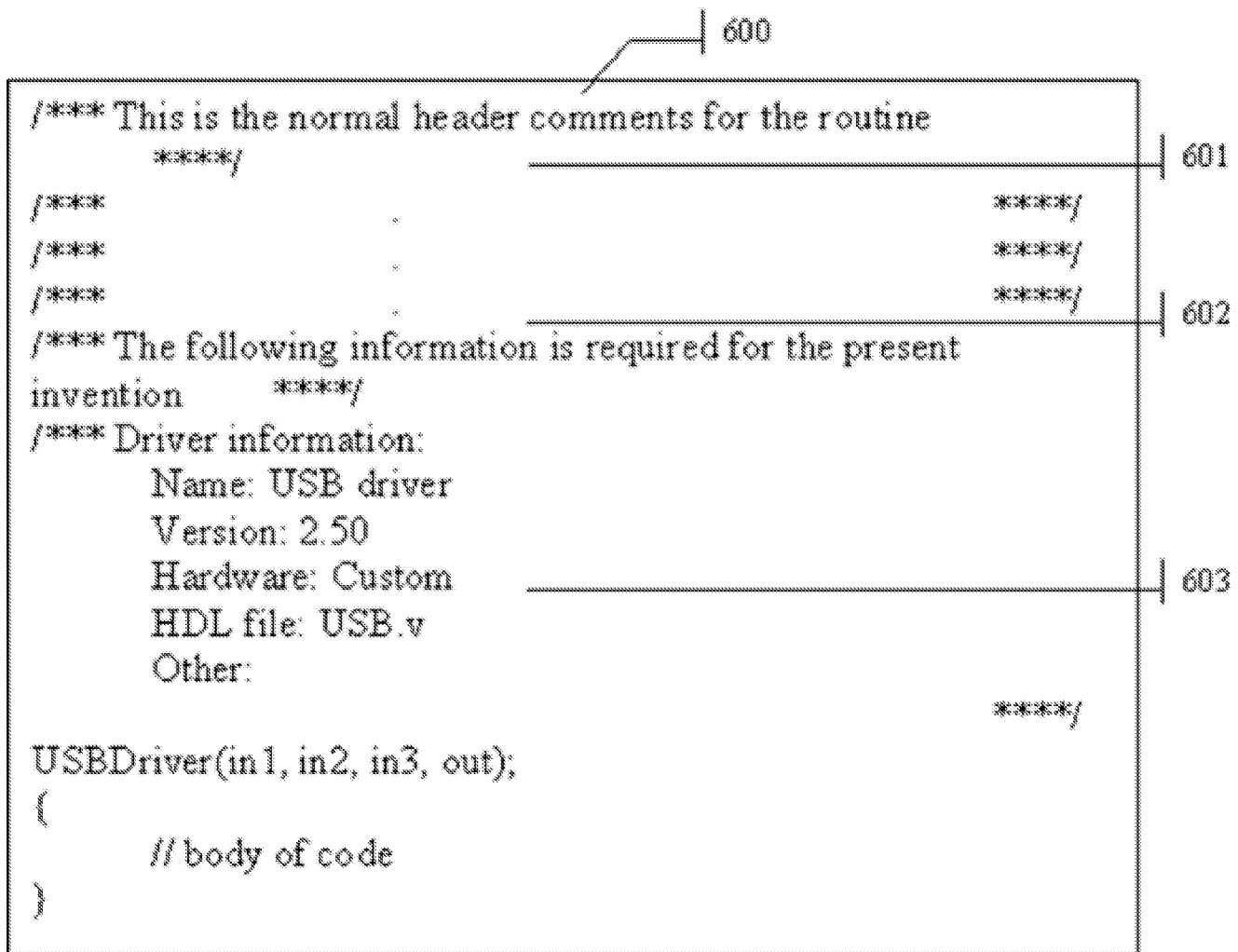


Figure 6

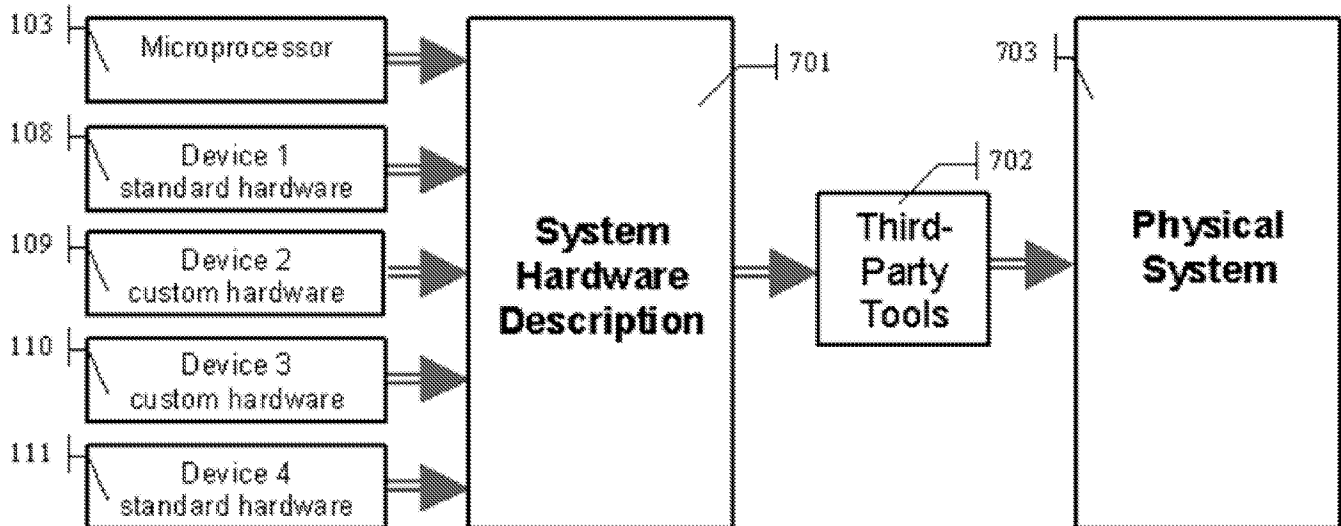


Figure 7

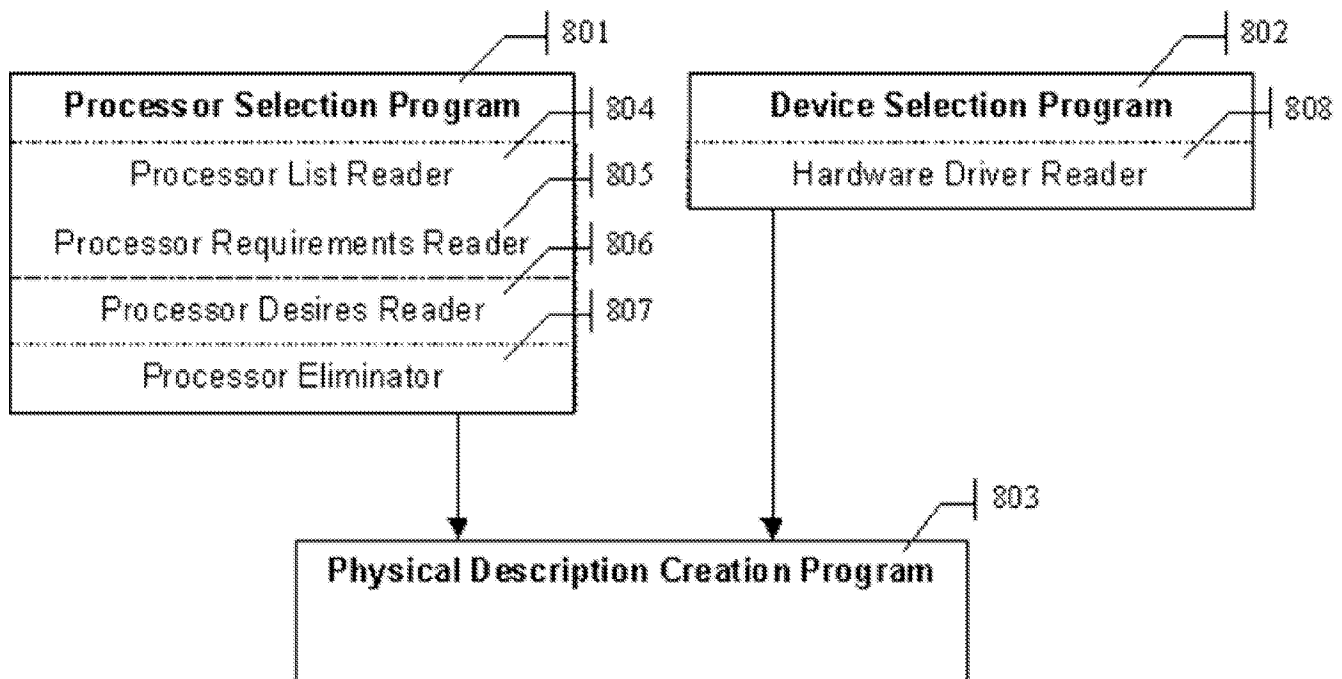


Figure 8

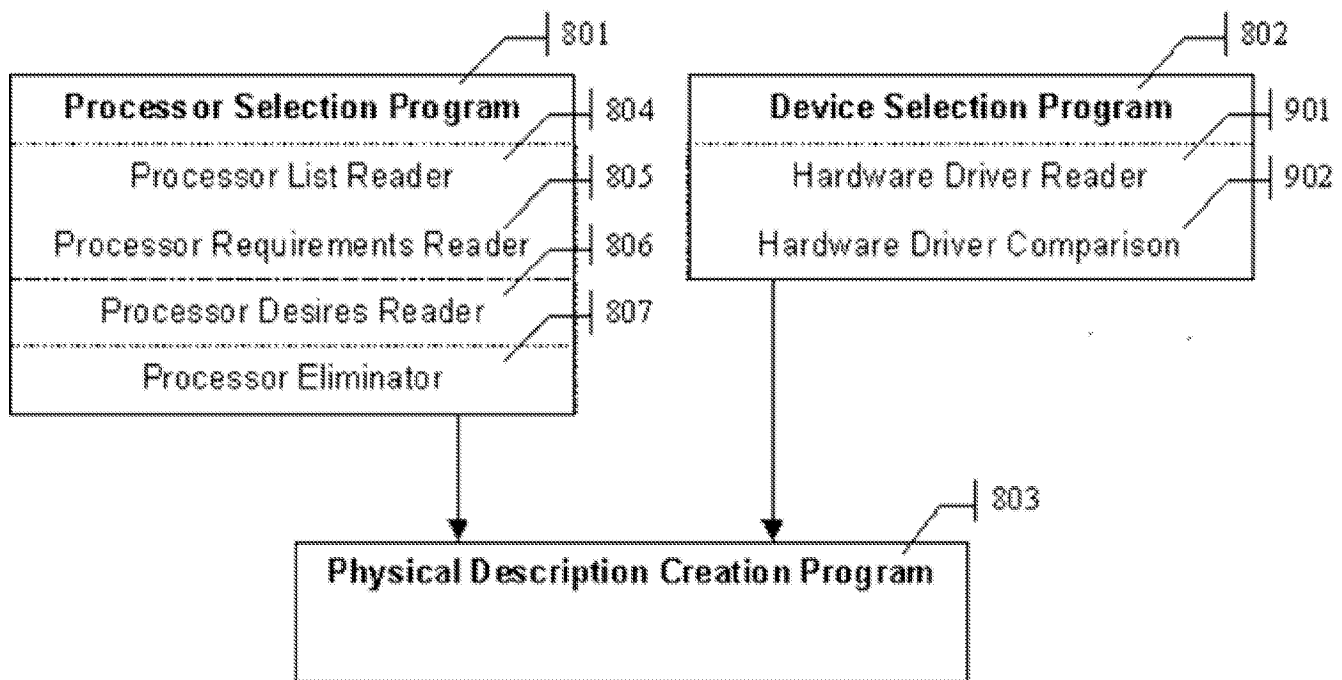


Figure 9